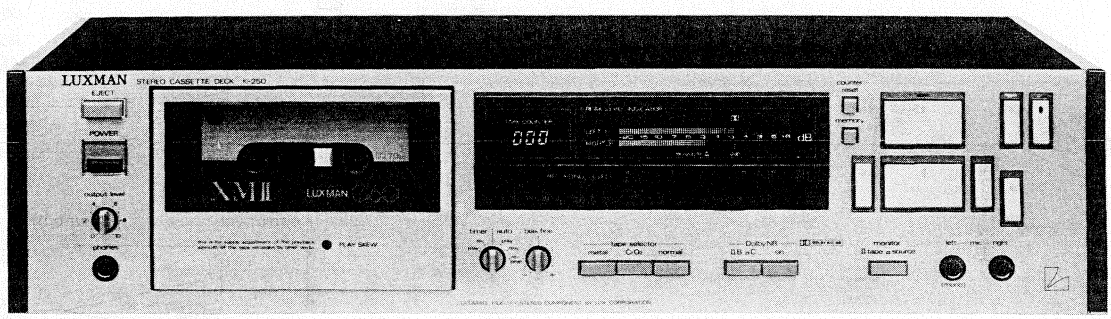
SERVICE MANUAL

LUXMAN STEREO CASSETTE DECK

K-250



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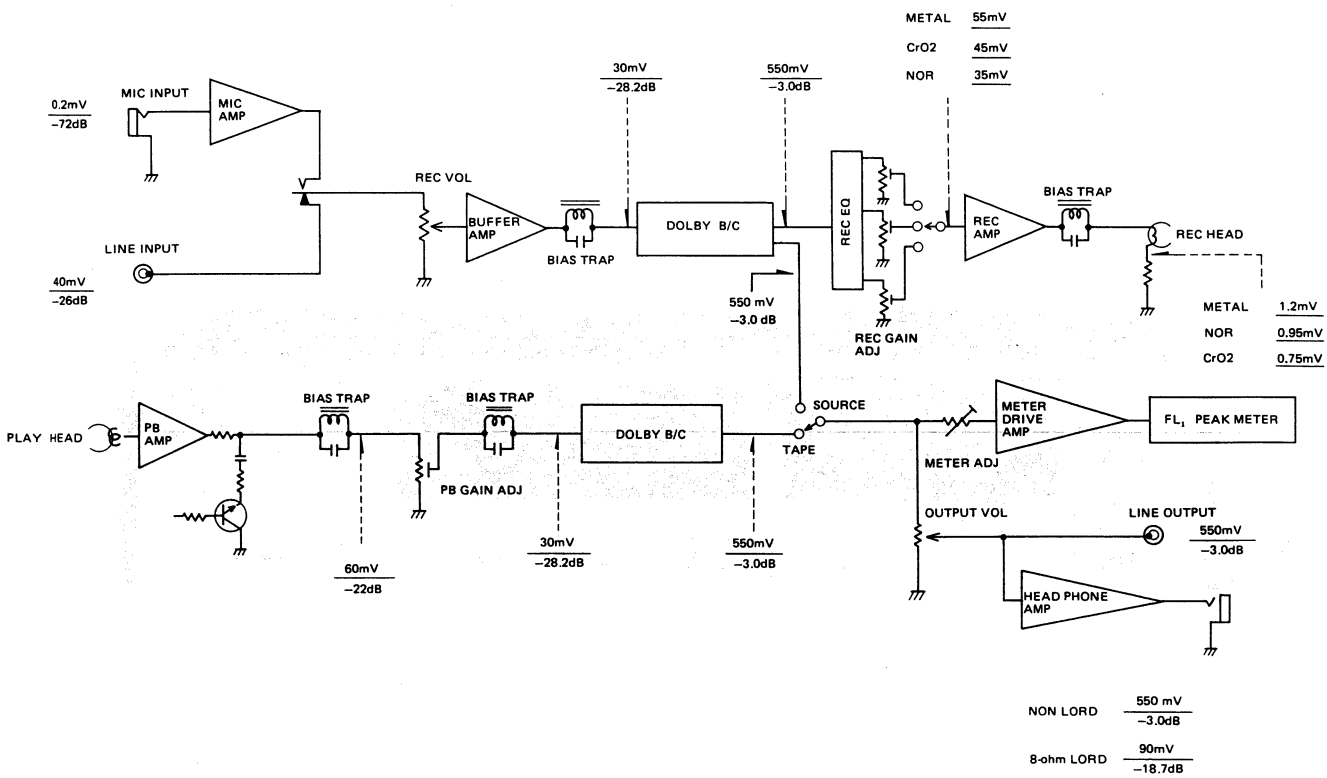
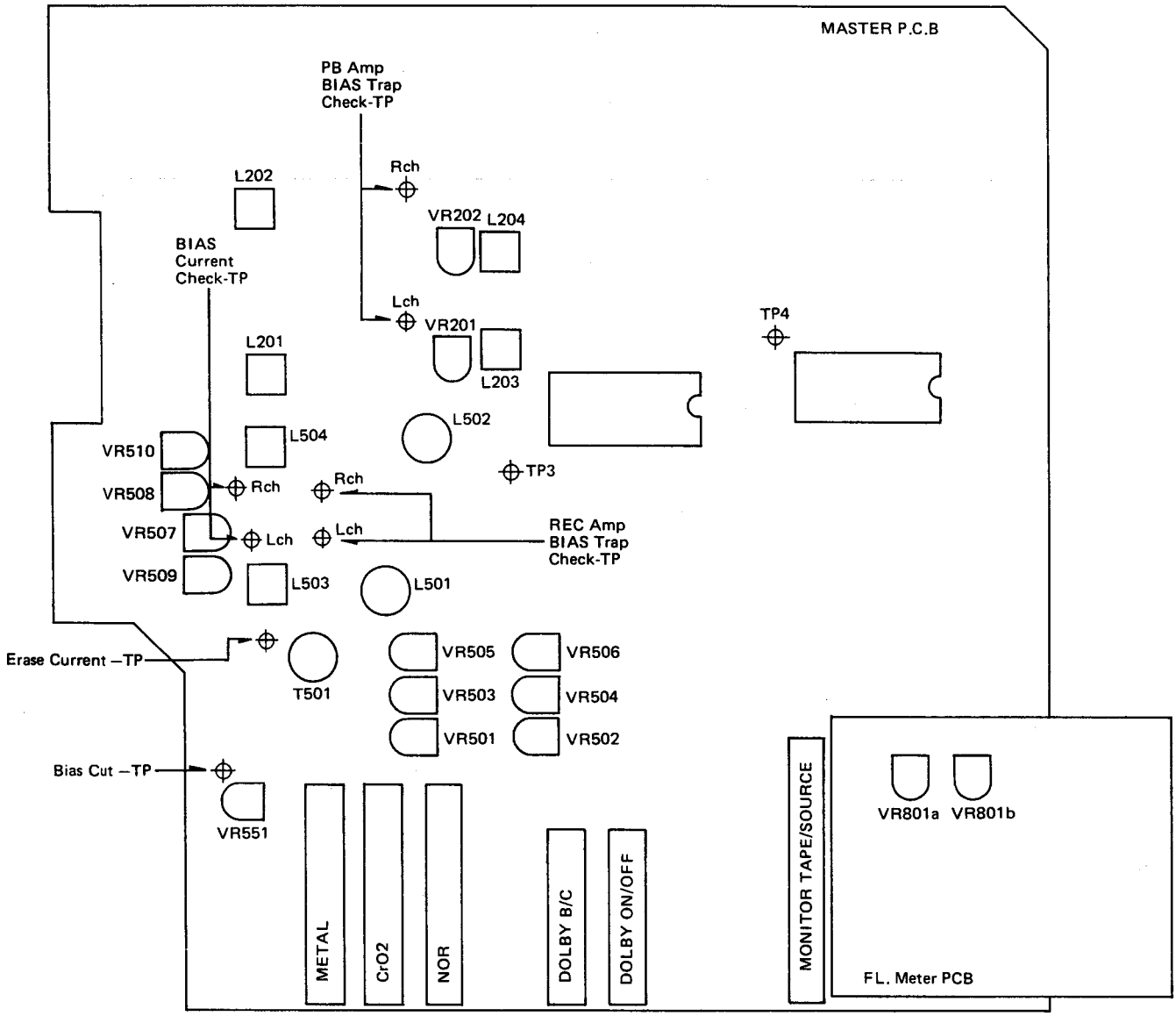
Level Diagram

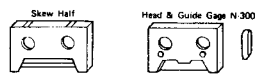
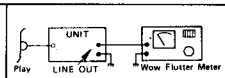
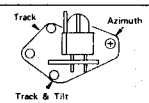
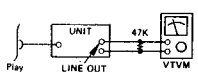
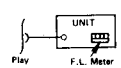
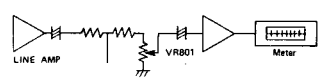
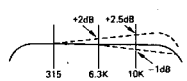
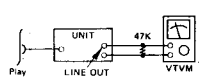
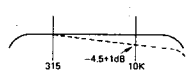
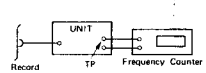
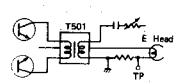


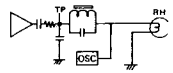
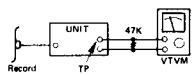
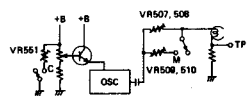
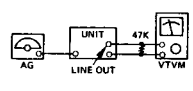
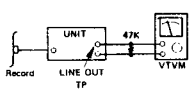
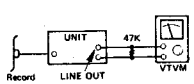
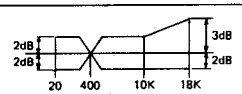
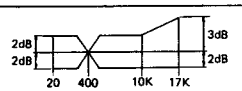
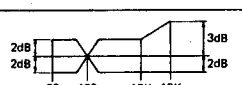
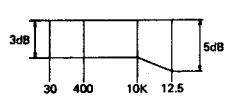
Adjustment Locations



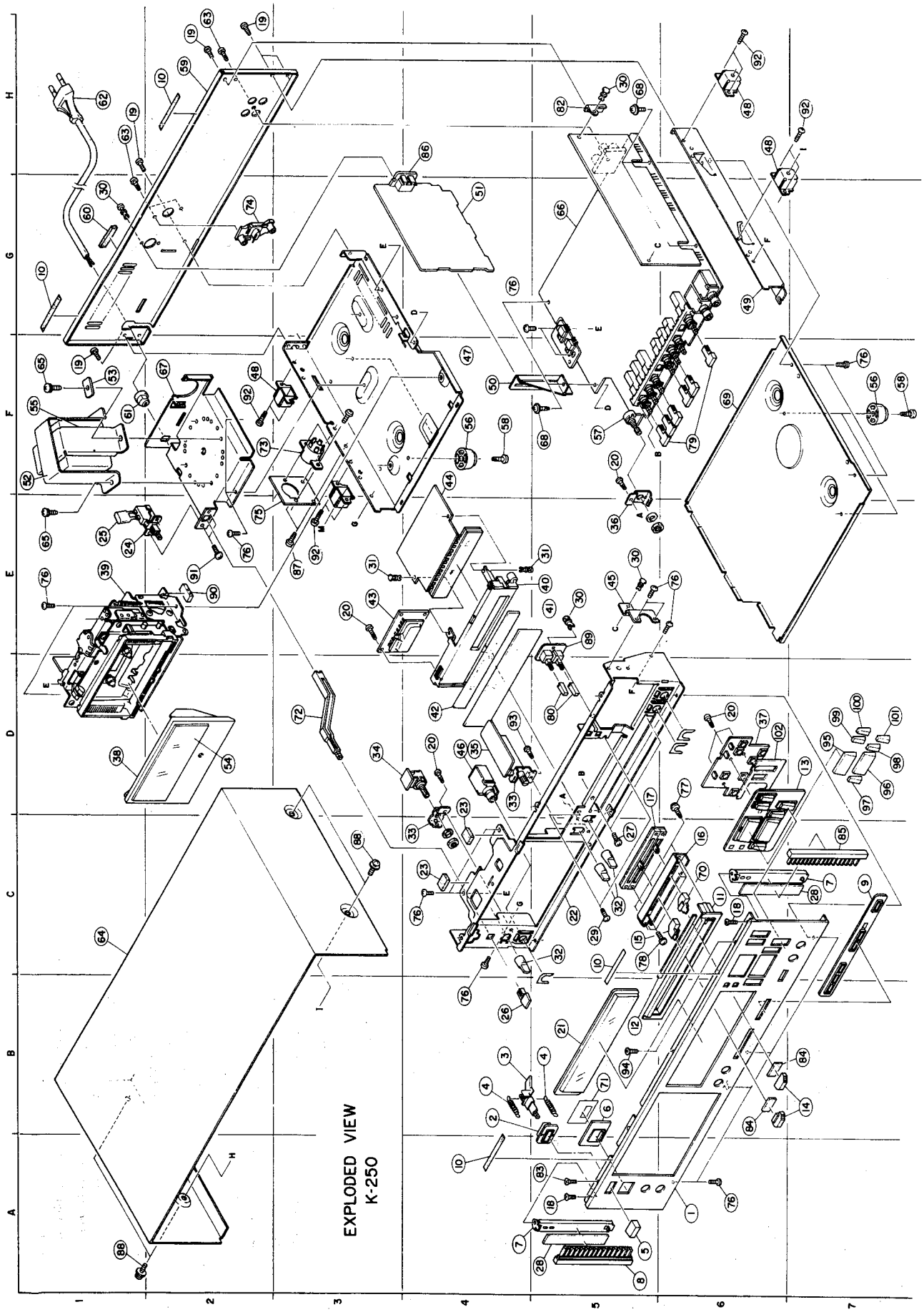
VR 201	Playback Dolby level Adj.	(L-ch)
VR 202	Playback Dolby level Adj.	(R-ch)
VR 501	Record Level Adj., Normal	(L-ch)
VR 502	Record Level Adj., Normal	(R-ch)
VR 503	Record Level Adj., CrO2	(L-ch)
VR 504	Record Level Adj., CrO2	(R-ch)
VR 505	Record Level Adj., Metal	(L-ch)
VR 506	Record Level Adj., Metal	(R-ch)
VR 507	Bias Current Adj., Normal	(L-ch)
VR508	Bias Current Adj., Normal	(R-ch)
VR 509	Bias Current Adj., Metal	(L-ch)
VR 510	Bias Current Adj., Metal	(R-ch)
VR 551	Bias Current Adj., CrO2	(L/R-ch)
VR 801 a	FL Meter Adj.	(L-ch)
VR 801 b	FL Meter Adj.	(R-ch)

Adjustment Procedures

Step	Description	Mode	Adjusting Point	Test Point	Connection	Remarks
1	Tape Transportation Chek	Play				Make sure that does not the tape guide of erase and R/P heads, by using "Skew Half". Confirm that R/P head is placed without any tilt against the "M-300" gage.
2	Torque Check	Play, FF & Rew				Take Up Torque : 35-60 g. cm Back Tension Torque : 2-6 g. cm FF & Rew Torque : 70-130g. cm
3	Tape Speed and Wow Flutter Check	Playback		Line Out		Test Tape : MTT-111 (3KHz) Speed : 3000Hz±1.5% Wow Flutter : No more than 0.05% (JIS W.R.M.S.)
4	Head Azimuth Adjustment	Playback				Test Tape : MTT-114 (10KHz) or MTT-215C (315Hz, 10KHz) Line Out : Maximum of both channel
5	Playback Dolby Level Adjustment	Playback Tape Select : Normal Dolby NR : Off	VR201 Lch VR202 Rch			Test Tape : MTT-150 (400Hz, 200nWb/m) Line Out : 550mV
6	FL Meter Adjustment	Playback	VR801a Lch VR801b Rch	Meter Display		 Test Tape : MTT-150 Meter Display : 0 dB
7 a	Playback Frequency Response Check	Playback Tape Slect : Normal Dolby NR : Off	Step 1-5	Line Out		 Test Tape : MTT217L or MTT-215C
7 b		Playback Tape Select : CrO_2 Dolby NR : Off				 Test Tape : MTT-114 or MTT-215CC
7 c		Playback Tape Slect : Metal Dolby NR : Off				
8	Bias OSC Frequency Check	Record Tape Select : Metal Dolby NR : Off	T501	Erase Current TP-GND		 Input : Non TP Output : 105KHz±5KHz 250mV±20mV

Step		Description	Mode	Adjusting Point	Test Point	Connection	Remarks	
9		Record Amp Bias Trap Adjustment	Record Tape Select : Metal Dolby NR : Off	L503 Lch L504 Rch	Rec Amp Bias Trap TP L/Rch -GND			Input : Non TP Output : Minimum
10	a	Bias Current Adjustment	Record Tape Select : Normal Dolby NR : Off	VR507 Lch VR508 Rch	Bias Current Check TP -GND			Input Non TP Output : 7.5mV
	b		Record Tape Select : CrO_2 Dolby NR : Off	VR551 L/Rch				Input : Non TP Output : 9.5mV
	c		Record Tape Select : Metal Dolby NR : Off	VR509 Lch VR510 Rch				Input : Non TP Output : 18.5mV
11		Input Level Adjustment	Record Tape Select : Normal Dolby NR : Off	Rec Level VR	Line Out		Input : 400Hz Line Out : 550mV	
12	a	Record Level Adjustment and Check	Record/play Tape Select : Normal Dolby NR : Off	VR501 Lch VR502 Rch				Input : 400Hz Line Out : 550mV
	b		Record/Play Tape Select : CrO_2 Dolby NR : Off	VR503 Lch VR504 Rch				
	c		Record/Play Tape Select : Metal Dolby NR : Off	VR505 Lch VR506 Rch				
13	a	Record/Playback Frequency Response Check	Record/Play Tape Select : Metal Dolby NR : Off	Step 8-12				Record Tape : AC-711 Input : 20Hz-18KHz 4.5mV
	b		Record/Play Tape Select : CrO_2 Dolby NR : Off					Recod Tape : AC-512 Input : 20Hz-17KHz 4.5mV
	c		Record/Play Tape Select : Normal Dolby NR : Off					Record Tape : AC-223 Input : 20Hz-16KHz 4.5mV
14		Record/Playback Frequency Response Check Dolby	Record/Play Tape Select : M, C, N Dolby NR : B, C					Record Tape : AC-711, AC-512 AC-223 Input : 20Hz-12.5KHz 4.5mV

Exploded View(1)

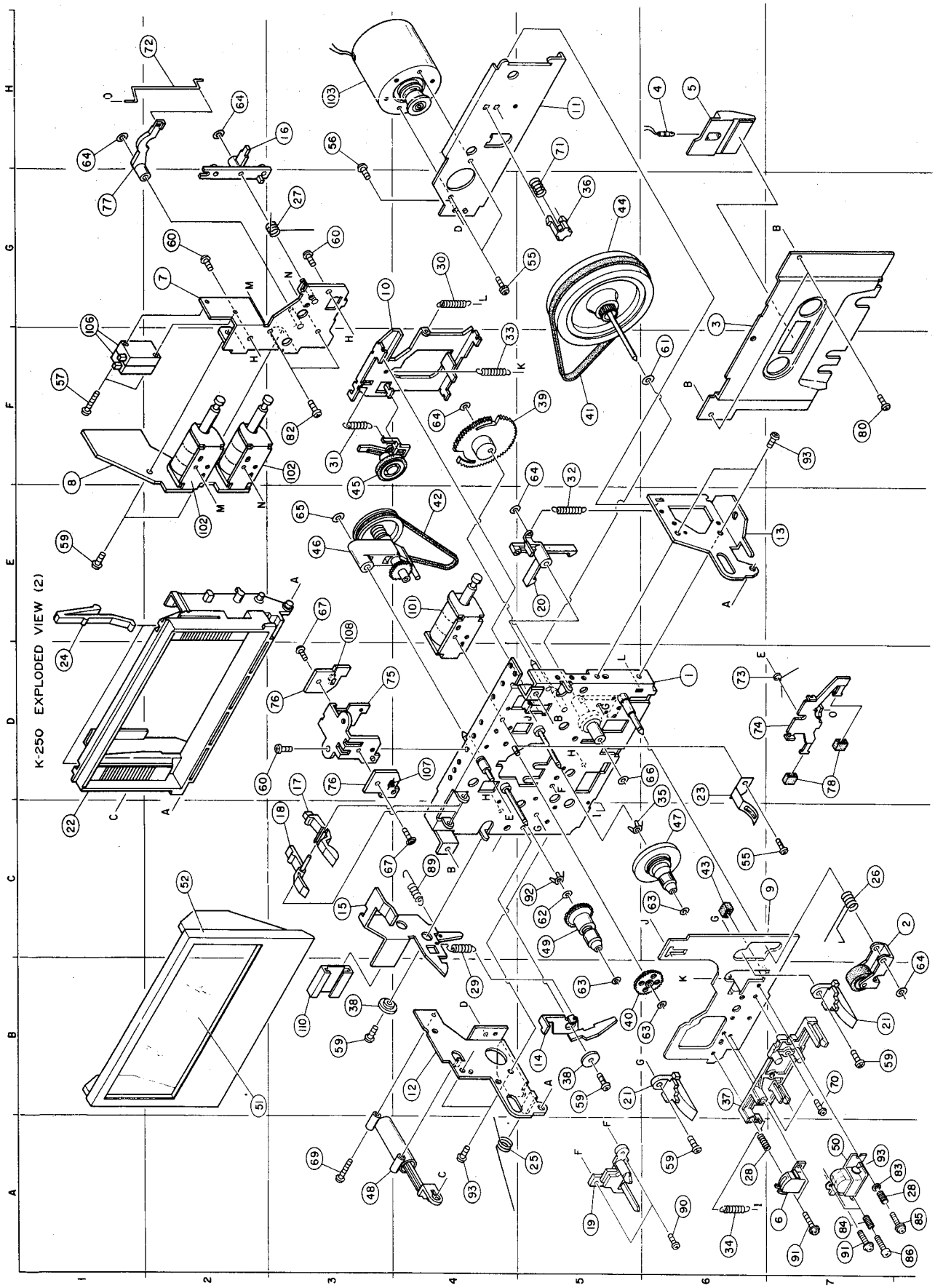


Exploded View(1) Parts List

Index	Symbol No.	Stock No.	Description
A6	1	64D57167F01	Panel, Front
B4	2	07A45558F04	Frame, Eject
B4	3	45A50461F01	Lever, Eject
B4,B5	4	41A45559F01	Spring, Eject
A5	5	36A44340F05	Knob, Eject
B5	6	61A56641F01	Crystal, Indicator
A4,C7	7	07A57175F01	Bkt, Side Panel
A5	8	07B56624F01	Frame, Side Panel
C7	9	07B57171F01	Frame, Push Knob
C5,G1	10	75B44632G04	Pad, Cushion
C6	11	13C57168F01	Escutcheon, Vol
B5	12	43A57191F01	Spacer, Escutcheon
D7	13	07C57172F01	Frame, Knob Logic
B7	14	36B57177F01	Knob, Control
C5	15	43B57179F01	Spacer, Knob Cont "B"
C6	16	07B57169F01	Bkt, Slide VR
D5	17	18T52629F01	VR Slide, 20K
A5,C6	18	03S44205G26	Scr, T-Tite M3x6
F1,H2	19	03S44205G40	Scr, T-Tite M3x4
F5,D4	20	03S40012G03	Scr, TPG M3x6
B5	21	61B57170F01	Crystal, Meter
C5	22	27D57181F01	Chassis, Front
C4	23	75A42565P15	Cushion, Rubber
E1	24	40T45561F01	SW, Power (SK, EK)
		40T47454F01	SW, Power (UP)
E1	25	08T57437F01	Cap, DE7090 B 101K (SK, UP)
		08T57437F09	Cap, DE7150FZ103P (EK)
		43T53136F01	Bush, Cap TP150-301
B4	26	36A56639F02	Knob, Push 1171
C5	27	03C40014G04	Scr, MCH M3x6
A5,C7	28	14S53018F52	Insulator (5x20)
C5	29	03S40012G03	Scr, TPG M3x6
E5,G1	30	05B41635J02	Rivet, Push
E3	31	05B41635J03	Rivet, Push
C5	32	36A57190F01	Knob, Rotary
D4,C4	33	07A50281F01	Bkt, Volume
D3,E3	34	01V58500F86	Ass'y, Output VR
D4	35	01V58500F94	Ass'y, Rotary SW
E5	36	07A52464F01	Bkt, Bias VR
D6	37	01V58500F99	Ass'y, Keyboard SW
D1	38	64B57188F01	Plate, Door
E1	39	01U57000F55	FL87E32E DK
E5	40	07C57182F01	Frame, Meter
E5	41	91A57183F01	Filter, Meter (A)
D4	42	91A57220F01	Filter, Meter (B)
E3	43	65T41785F01	Lamp, FL Counter Ass'y
F4	44	01V58200F93	Ass'y, FL Meter PCB
E5	45	07A51006F01	Bkt, PCB
D4	46	01V58500F11	Ass'y, HD Phone PCB
F4	47	27C44535F01	Chassis, Bottom
F2,H6	48	07A57185F01	Bkt, Side
G6	49	27C44329F01	Chassis, Side
F4	50	07A50949F01	Support, Control PCB
G4	51	01V58500F10	Ass'y, Control PCB
F1	52	07A45749F01	Support, Trans (U)
F1	53	07A40871F01	Support, Trans Washer

Index	Symbol No.	Stock No.	Description
D2	54	61C57187F01	Crystal, Door
F1	55	25T47457F01	Trans, Power (SK)
		25T57592F01	Trans, Power (EK)
		25T50265F02	Trans, Power (UP)
F7,F4	56	75A52969F01	Pad, Trann-Leg
F5	57	18T52943F01	VR, Rotary (BIAS)
F4,F7	58	03S40036U02	Scr, T-Tite M3x8
H2	59	15C53244F07	Cover, Rear
G1	60	75A42565P17	Cushion, Rubber
F1	61	43B41625J02	Support, Cord (SK, EK)
		43B41625J01	Stopper, Cord (UP)
H1	62	28T43812P02	Plug, AC Cord (SK)
		28T50179F03	AC Cord (EK)
		28T40916U01	Plug, AC Cord (UP)
H1,H2	63	03S40012G41	Scr, TPG M3x8
C1	64	15D57189F01	Cover, Top
E1,F1	65	03S40036U07	Scr, T-Tite M4x12
G5	66	01V58500F87	Ass'y, Master Board (SK)
		01V58700F47	Ass'y, Master Board (EK, UP)
F2	67	07B45445F01	Bkt, Trans (SK, EK)
		07B45445F02	Bkt, Trans (UP)
F5	68	03C42723U01	Scr, CUP M3x6
E6	69	15C44331F01	Cover, Bottom
C6	70	43B57178F01	Spacer, Knob Cont "A"
B5	71	43A56628F01	Spacer, Power
D3	72	45B57186F01	Lever, Knob
F3	73	40T40705T04	SW, Select (EK)
G2	74	09T57505F01	Plate, Phono 1P T5538
E2	75	07A57583F01	Bkt, Select SW (EK)
E2,A6	76	03S44205G05	Scr, T-Tite M3x5
D6	77	03S40018G02	Scr, TPG M3x8
C5	78	03C40014G12	Scr, MCH M2.6x4
F6	79	36A57176F01	Knob, Push (A)
D5	80	36A57180F01	Knob, Push (B)
H5	82	07A51010F01	Bkt, PCB
A5	83	03S40012G81	Scr, TPG M3x5 Flat B
B6	84	75A57370F01	Pad, Cushion
C7	85	07B56624F02	Frame, Panel Side
H4	86	09T50261F01	Jack, Cont
E3	87	03S44205G01	Scr, T-Tite M3x6 (EK)
A1,C3	88	03S40036U01	Scr, T-Tite M4x8
E5	89	01V58500F95	Ass'y, Memory & Rest
E2	90	75A42565P14	Cushion, 2x5x20
E2	91	03C40014G09	Scr, MCH M3x5
H7,E3	92	03S44205G12	Scr, T-Tite M3x4
D4	93	03C40014G09	Scr, MCH M3x5
B5	94	03S44205G16	Scr, T-Tite M3x6
D7	95	36B57173F01	Knob, Logic (Play)
D7	96	36B57173F02	Knob, Logic (Stop)
D7	97	36A57174F01	Knob, Logic (F. F)
D7	98	36A57174F02	Knob, Logic (REW)
D7	99	36A57174F03	Knob, Logic (Pause)
D7	100	36A57174F04	Knob, Logic (REC)
D7	101	36A57174F05	Knob, Logic (RECMUTE)
D7	102	07A57192F01	Bkt, Stopper

Exploded View(2)

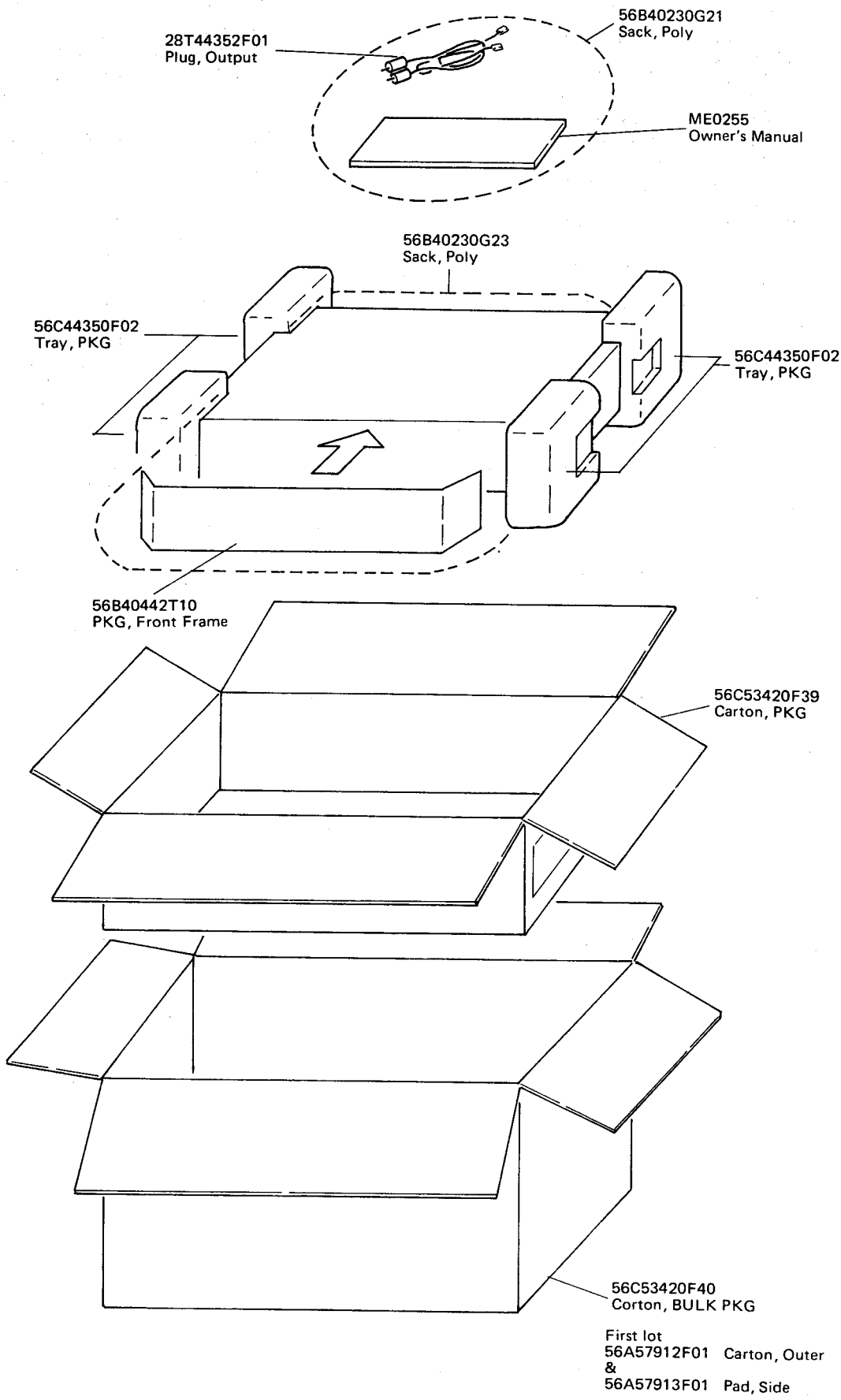


Exploded View(2) Parts List

Index	Symbol No.	Stock No.	Description	Q'ty
D6	1	F011—139	Ass'y, Chassis	1
C7	2	F014—053	Ass'y, Pinchroller	1
G6	3	15B44924F05	Cover, Dust	1
H5	4	65C42544U04	Lamp,Pilot 14V-50mA	1
H5	5	61A44936F01	Lens, Indicator	1
A7	6	FU163—13	Head, Erase	1
G2	7	F214—015	Ass'y, Solenoid Bkt	1
F1	8	FP11N—11	Panel, Connector	1
C7	9	FC17D—13	Base, Head	1
G3	10	FR346—11	Base, Assist	1
H5	11	FR347—12	Bkt, Motor	1
B4	12	FR349—17	Bkt, Dumper	1
E7	13	FR350—15	Bkt, Door	1
B5	14	FR352—11	Lever, Safety	1
C3	15	FC11H—14	Lock Arm, Eject	1
H3	16	FR355—14	Arm, FF Solenoid	1
D3	17	FR356—14	Arm, Switch	1
C3	18	FD17T—13	Arm, Record	1
A5	19	FR13V—12	Ass'y, Tension Arm	1
E5	20	FR359—12	Solenoid, Arm Play	1
B5,B7	21	FR360—12	Guide, Cassette	2
C1	22	FD19L—14	Door, Frame	1
D6	23	FK551—13	Spring, Cassette	1
D1	24	FK553—12	Hold, Spring	2
A5	25	FK568—11	Spring, Door	1
C7	26	FK569—13	Spring, Pinchroller	1
G3	27	FK570—12	Spring, Solenoid Bkt	1
A7	28	FK572—11	Spring, Azimuth	2
B4	29	FK573—11	Spring, Arm Lock	1
G4	30	FK574—13	Spring, Assist base	1
F3	31	FK575—11	Spring, Play Idler	1
F5	32	FK576—12	Spring, Play S.I. Arm	1
F4	33	FK577—13	Spring, Head Base	1
A6	34	FK578—13	Spring, Head Base Hold	1
D6	35	FK579—11	Spring, Back Tension	1
G5	36	FM281—12	Spacer, Flywheel	1
B6	37	FD14U—14	Spacer, Head	1
B3,B5	38	FM296—11	Spacer	2
F5	39	FN153—11	Gear,Play	1
B5	40	FN154—13	Gear, Idler	1
F5	41	FP462—11	Belt, Main	1
E4	42	FP463—11	Belt, Sub	1
C6	43	FP464—11	Cushion, Pad	1
G5	44	FR13L—11	Ass'y, Flywheel	1
F3	45	FP469—12	Ass'y, Idler	1
E3	46	FP470—11	Ass'y, Clutch	1
C6	47	FR12N—11	Ass'y, Take Up Reel	1
A3	48	FP472—11	Ass'y, Dumper	1
C5	49	FR12P—11	Ass'y, Supply Reel	1

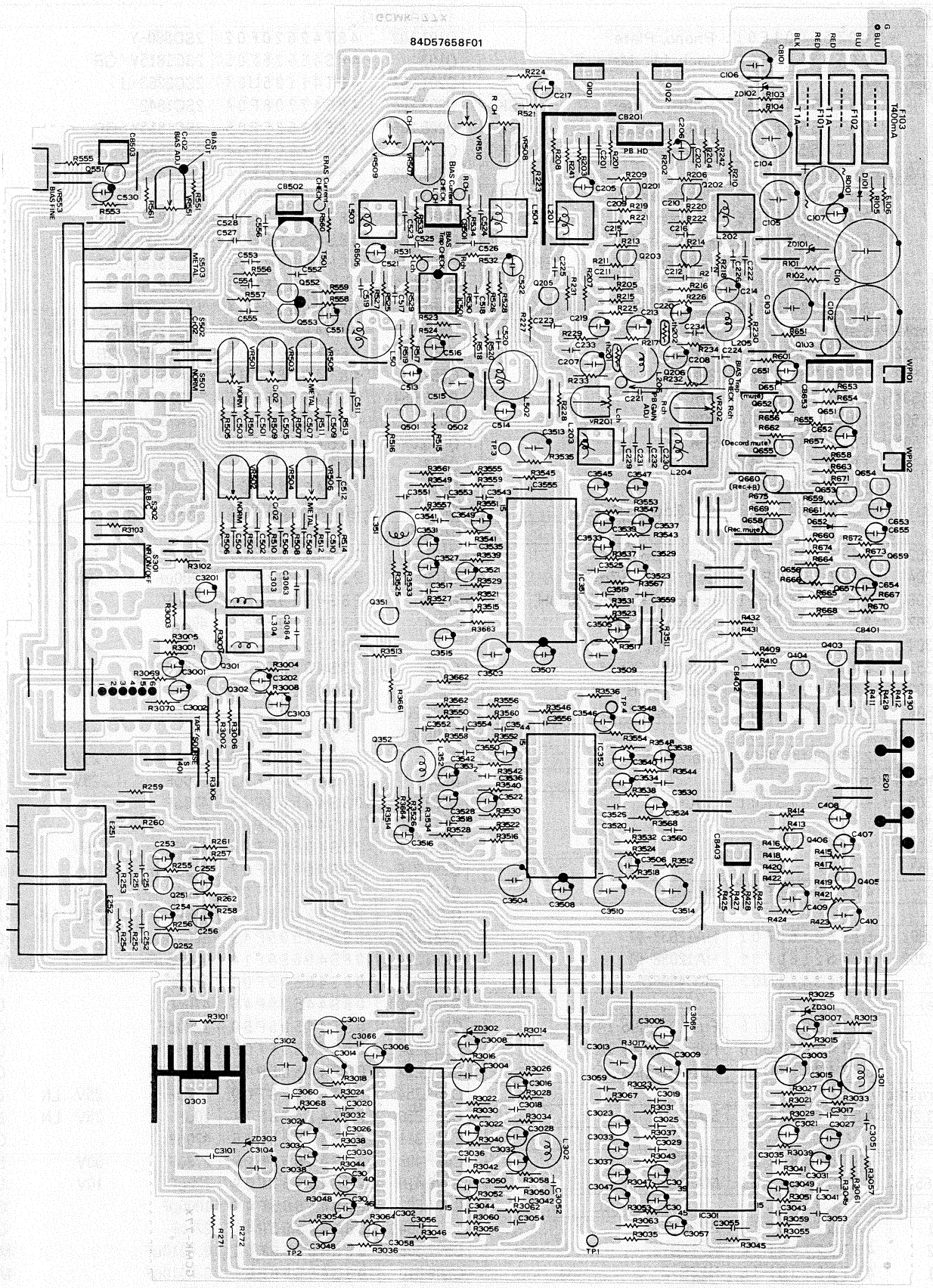
Index	Symbol No.	Stock No.	Description	Q'ty
A7	50	FU12V—12	Head, R/P (Combi)	1
B2	51	61C57187F01	Crystal Door	1
C2	52	64B57188F01	Plate, Door	1
C6,G5	55	FG114—15	M2.6×4.5 Screw	3
H3	56	KG189—11	M3×5 Screw	5
F1	57	FG143—29	M2.6×16 Screw	2
A6,B3	59	KG194—12	M3×6 Screw, TPG	7
D2,G2	60	KG194—46	M3×4.5 Screw, TPG	3
F6	61	FJ111—40	ϕ2.1×0.5 (F/W) Washer Poy	1
C5	62	FJ111—18	ϕ2×0.25 Washer Poy	1
B5,C6	63	FJ111—17	ϕ1.7	3
B7,F4	64	FJ123—21	ϕ2.6	5
E3	65	FJ123—19	Washer, Lock 3.5ϕ	1
D6	66	FJ141—12	Oilsheel	1
C3,E3	67	FG137—11	M2×3 Screw, Lock	2
A3	69	UG11D—11	M2×12 Screw, TPG	1
B7	70	FG137—13	M2×5 Screw, Lock	2
H5	71	FK11F—16	Spring Thrust	1
H2	72	FK11Y—13	Brake, Lod	1
D6	73	FK12A—11	Spring, Brake	1
D6	74	FC15G—13	Lever, Brake	1
D3	75	FG15H—11	Bkt, Sencer	1
D3	76	FP11E—11	Panel,Sencer	2
G1	77	FD12W—12	Arm, Brake	1
D7	78	FF11C—13	Gum, Brake	2
F7	80	03S40036U03	Scr, Ftttc M3×6	
F3	82	FG143—17	M2.6×3 Screw	2
A7	83	FJ151—11	Bkt, Flat	1
A7	84	FK11F—23	Spring, Tilt	2
A7	85	UG11K—12	M2×18 Screw, Binding	1
A7	86	UG11M—11	Screw, Tilt	2
C4	89	FK11C—19	Spring, Brake Arm	1
A6	90	FG137—12	M2×4 Screw Lock	2
A7	91	UG11K—11	M2×11.5 Screw, Binding	3
C5	92	FK579—13	Spring, Back Tension	1
A4,F7	93	EZ15E—00	Thermistor	1
E4	101	F082—044	Ass'y, Solenoid	1
E2,F3	102	PKA16106	Solenoid	2
H3	103	F064—93	Ass'y, Motor	1
F1	106	FE173—11	Switch, Slide	2
D4	107	AU11C—00	LED Senser TLN104	1
E3	108	AZ11H—00	Transistor, Sencer TPS605	1
B3	110	43A51937F01	Spacer, Eject	1

Packing Material Parts List



First lot
56A57912F01 Carton, Outer
&
56A57913F01 Pad, Side

Master Board



Master Board Parts List

Symbol No.	Stock No.	Description
(Jack)		
E201	09T56001E01	Phono, Plate
E251,252	09T55174F02	Jack, Mic Metal-6.5
(Holder, Fuse)		
F101	09T45548F01	Holder, Fuse (SK)
F102	09T45548F01	Holder, Fuse (SK)
F103	09T45548F01	Holder, Fuse (SK)
(Fuse & Jamper Wire)		
F101	65T42077U16	Fuse, Semko 1A(SK)
	30A44183F06	Jamper Wire (EK, UP)
F102	65T42077U16	Fuse, Semko 1A(SK)
	30A44183F06	Jamper Wire (EK, UP)
F103	65T42077U12	Fuse, Semko (SK)
F103	30A44183F06	Jamper Wire (EK, UP)
(Variable Pesistor)		
VR201,202	18C42061J15	50K
VR501,502	18C42061J24	20K
VR503,504	18C42061J24	20K
VR505,506	18C42061J24	20K
VR507,508	18C42061J15	50K
VR509,510	18B44064J04	47K
VR551	18C42061J12	2K
VR553	18T52943F01	VR, Rotary(BIAS)
(Coil)		
L201,202	24T51914F02	Coil, Trap 10mH
L203,204	24T51914F01	Coil, Trap 4.7mH
L205,206	24S41448F81	Inductor Radial 4700uH
L301,302	24T47741F01	Inductor, 36mH
L303,304	24T51803F01	Coil, Trap 4.7mH
L351,352	24T47741F01	Inductor, 36mH
L501,502	24S41199U07	Coil, 3.3mH
L503,504	24T51914F01	Coil, Trap 4.7mH
(Trans, OSC)		
T501	25T53107F01	Trans, OSC
(Switch, Pusn)		
S301,302 401,501 502,503	40T57673F01	SUL-6
(Diode)		
BD101	48T50629F01	WL-02
(IC)		
IC301,302	51T52160F01	HA12038-01
IC351,352	51T52160F01	HA12038-01
IC501	51S43471U02	uPC4558C
(Fuse)		
F101	65T42077U16	Fuse, Semko 1AT
F102	65T42077U16	Fuse, Semko 1AT
F103	65T42077U12	Fuse, Semko
(Thermistor)		
TH201,202	48T57369F15	5.0K
(Diode)		
D101	48T55186F01	GP10D
D651,652	48T51582F01	MA-150
(Diode, Zener)		
ZD101	48T52739F86	HZ20-2
ZD102	48T52739F74	HZ12B-2
ZD301	48T52739F38	HZ6B-2
ZD302	48T52739F38	HZ6B-2
ZD303	48T52739F74	HZ12B-2

Symbol No.	Stock No.	Description
(Transistor)		
Q101,102	48T42620F02	2SD880-Y
Q103	48S43525F05	2SC1815Y GR
Q201,202	48T41195U04	2SC2263-U
Q203,204	48S47708F04	2SC1842
Q205,206	48S43525F05	2SC1815Y GR
Q251,252	48S47708F04	2SC1842
Q301,302	48S47708F04	2SC1842
Q303	48T40469U01	2SC1983
Q351,352	48T51873F01	2SC2878 A. B
Q403,404	48S43525F05	2S1815Y GR
Q405,406	48S40832F04	2SC1318NC-S
Q501,502	48S43525F05	2SC1815Y GR
Q551	48S40832F04	2SC1318NC-S
Q552,553	48S40832F04	2SC1318NC-S
Q651	48S43525F05	2SC1815Y GR
Q652	48T40081T03	2SA733 (P)
Q653,654	48S43525F05	2SC1815Y GR
Q655	48T40081T03	2SA733 (P)
Q656,657	48S43525F05	2SC1815Y GR
Q658	48T40081T03	2SA733 (P)
Q659	48S43525F05	2SC1815Y GR
Q660	48T40081T03	2SA733 (P)
(Capacitor)		
C101	23S41198U67	100uF 50V E1
C102	23S41198U72	2200uF 25V E1
C103	23S41198U42	220uF 25V E1
C104	23S41198U56	470uF 16V E1
C105	23S41198U42	220uF 25V E1
C106	23S40657F14	100uF 16V E1
C107	23S40657F28	1uF 50V E1
C201,202	08S44505P42	270pF Ce
C205,206	23T42478F24	1uF 50V LN E1
C207	23S40657F18	22uF 25V E1
C208	23S40657F21	100uF 25V E1
C209,210	08S44505P45	470pF Ce
C211,212	08S44505P31	56pF Ce
C213,214	23S40657F20	47uF 25V E1
C251,216	08S40656F07	0.0033uF My
C217	23S40657F20	47uF 25V E1
C219,220	23T42478F11	10uF 25V LN E1
C221,222	08S44505P49	1000pF Ce
C223,224	08S40656F14	0.012uF My
C225,226	08S40805F03	220pF Ce
C229,230	08S44505P45	470pF Ce
C231,232	08S44505P50	1200pF Ce
C233,234	08S40805F05	470pF Ce
C251,252	08S44505P49	1000pF Ce
C253,254	23T42478F09	4.7uF 25V LN E1
C255,256	23T42478F11	10uF 25V LN E1
C310,311	08S44505P45	470pF Ce
C407,408	23S40657F29	2.2uF 50V E1
C409,410	23S40657F09	220uF 10V E1
C501,502	08S44505P49	1000pF Ce
C503,504	08S44505P41	220pF Ce
C507,508	08S40656F01	0.0010uF My
C509,510	08S40656F01	0.0010uF My
C511,512	08S44505P49	1000pF Ce
C513,514	23T42478F24	1.0uF 50V LN E1

Symbol No.	Stock No.	Description			
C515	23S40657F21	100uF	25V		E1
C516	23S40657F10	10uF	16V		E1
C517,518	08S40656F25	0.10uF			My
C519,520	08S40656F12	0.0082uF			My
C521,522	23T42478F09	4.7uF	25V	LN	E1
C523,524	08S44505P45	470pF			Ce
C525,526	08S44505P41	220pF			Ce
C527,528	08S44505P37	100pF			Ce
C530	23S40657F16	4.7uF	25V		E1
C551	23S40657F20	47uF	25V		E1
C552	08S40656F13	0.010uF			My
C553	08S40656F07	0.0033uF			My
C554	08S40656F11	0.0068uF			My
C555	08S40656F07	0.0033uF			My
C556	08T52448F35	0.0082uF			My
C651	23S40657F18	22uF	25V		E1
C652,655	23S40657F16	4.7uF	25V		E1
C653	23S40657F17	10uF	25V		E1
C654	23S40657F17	10uF	25V		E1
C3001,3002	23T42478F05	10uF	16V	LN	E1
C3003,3004	23S40657F14	100uF	16V		E1
C3005,3006	23T42478F05	10uF	16V	LN	E1
C3007,3008	23S40657F13	47uF	16V		E1
C3009,3010	23S40657F14	100uF	16V		E1
C3013,3014	23S40657F09	220uF	10V		E1
C3015,3016	23S40657F10	10uF	16V		E1
C3017,3018	08S40656F04	0.0018uF			My
C3019,3020	08S40656F15	0.015uF			My
C3021,3022	23S40657F27	0.47uF	50V		E1
C3023,3024	23S40657F10	10uF	16V		E1
C3025,3026	08S40656F13	0.010uF			My
C3027,3028	23T42478F19	0.15uF	50V	LN	E1
C3029,3030	08S40656F16	0.018uF			My
C3031,3032	23S40657F16	4.7uF	25V		E1
C3033,3034	23S40657F16	4.7uF	25V		E1
C3035,3036	08S40656F24	0.082uF			My
C3037,3038	23T42478F21	0.33uF	50V	LN	E1
C3039,3040	23T42478F21	0.33uF	50V	LN	E1
C3041,3042	08S40656F07	0.0033uF			My
C3043,3044	08S40656F10	0.0010uF			My
C3045,3046	23S40657F28	1uF	50V		E1
C3047,3048	23S40657F28	1uF	50V		E1
C3049,3050	23S40657F10	10uF	16V		E1(SK)
C3051,3052	08S40656F08	0.0039uF			My
C3053,3054	08S40656F10	0.0056uF			My
C3055,3056	08S44505P27	39pF			Ce
C3057,3058	23S40657F10	10uF	16V		E1
C3059,3060	08S40656F15	0.015uF			My
C3063,3064	08T44481F05	0.00047uF			Pp
C3065,3066	08S44505P50	1200pF			Ce
C3102	23S41198U41	220uF	16V		E1
C3103	23S40657F20	47uF	25V		E1
C3104	23S41198U56	470uF	16V		E1
C3201,3202	23T42478F05	10uF	16V	LN	E1
C3503,3504	23S40657F14	100uF	16V		E1
C3505,3506	23T42478F24	1.0uF	50V	LN	E1
C3507,3508	23S40657F13	47uF	16V		E1
C3509,3510	23S40657F14	100uF	16V		E1
C3513,3514	23S40657F09	220uF	10V		E1

Symbol No.	Stock No.	Description			
C3515,3516	23S40657F10	10uF	16V		E1
C3517,3518	08S40656F04	0.0018uF			My
C3519,3520	08S40656F15	0.015uF			My
C3521,3522	23S40657F27	0.47uF	50V		E1
C3523,3524	23S40657F10	10uF	16V		E1
C3525,3526	08S40656F13	0.010uF			My
C3527,3528	23T42478F19	0.15uF	50V	LN	E1
C3529,3530	08S40656F16	0.018uF			My
C3531,3532	23S40657F16	4.7uF	25V		E1
C3533,3534	23S40657F16	4.7uF	25V		E1
C3535,3536	08S40656F24	0.082uF			My
C3537,3538	23T42478F21	0.33uF	50V	LN	E1
C3539,3540	23T42478F21	0.33uF	50V	LN	E1
C3541,3542	08S40656F07	0.0033uF			My
C3543,3544	08S40656F01	0.0010uF			My
C3545,3546	23S40657F28	1uF	50V		E1
C3547,3548	23S40657F28	1uF	50V		E1
C3549,3550	23S40657F10	10uF	16V		E1
C3551,3552	08S40656F08	0.0039uF			My
C3553,3554	08S40656F10	0.0056uF			My
C3555,3556	08S44505P27	39pF			Ce
C3559,3560	08S40656F15	0.015uF			My
(Resistor)					
R101,102	06S44593P75	2.7K	1/4W		Rd
R103,104	06S44593P61	680	1/4W		Rd
R105	06S44593P89	10K	1/4W		Rd
R106	06S44593P75	2.7K	1/4W		Rd
R201,202	06S44593P01	2.2	1/4W		Rd
R203,204	06S44594P10	68K	1/4W		Rd
R205	06S44593P93	15K	1/4W		Rd
R206	06S44594P14	100K	1/4W		Rd
R207	06S44593P97	22K	1/4W		Rd
R208	06S44593P61	680	1/4W		Rd
R211,212	06S44594P02	33K	1/4W		Rd
R213,214	06S44594P42	1.5M	1/4W		Rd
R215	06S44594P14	100K	1/4W		Rd
R216	06S44593P93	15K	1/4W		Rd
R217,218	06S44593P69	1.5K	1/4W		Rd
R219,220	06S44594P03	36K	1/4W		Rd
P221,222	06S44594P37	910K	1/4W		Rd
R223	06S44593P93	15K	1/4W		Rd
R224	06S44593P89	10K	1/4W		Rd
R225,226	06S44593P81	4.7K	1/4W		Rd
R227,228	06S44593P89	10K	1/4W		Rd
R229,230	06S44593P81	4.7K	1/4W		Rd
R231,232	06S44594P14	100K	1/4W		Rd
R233,234	06S44593P83	5.6K	1/4W		Rd
R241,242	06S44594P26	330K	1/4W		Rd
R251,252	06S44593P57	470	1/4W		Rd
R253,254	06S44593P89	10K	1/4W		Rd
R255,256	06S44594P38	1M	1/4W		Rd
R257,258	06S44593P89	10K	1/4W		Rd
R259,260	06S44594P14	100K	1/4W		Rd
R261,262	06S44594P30	470K	1/4W		Rd
R271,272	06S44593P91	12K	1/4W		Rd
R409,410	06S44593P81	4.7K	1/4W		Rd
R411,412	06S44593P55	390	1/4W		Rd
R413,414	06S44594P04	39K	1/4W		Rd
R415,416	06S44593P61	680	1/4W		Rd

Symbol No.	Stock No.	Description		
R417,418	06S44593P61	680	1/4W	Rd
R419,420	06S44593P61	680	1/4W	Rd
R421,422	06S44593P61	680	1/4W	Rd
R423,424	06S44593P89	10K	1/4W	Rd
R425,426	06S44593P23	18	1/4W	Rd
R427,428	06S44593P23	18	1/4W	Rd
R429,430	06S44593P65	1K	1/4W	Rd
R431,432	06S44593P41	100	1/4W	Rd
R501,502	06S44594P06	47K	1/4W	Rd
R505,506	06S44594P10	68K	1/4W	Rd
R507,508	06S44594P30	470K	1/4W	Rd
R509,510	06S44594P08	56K	1/4W	Rd
R511,512	06S44594P06	47K	1/4W	Rd
R513,514	06S44594P18	150K	1/4W	Rd
R515,516	06S44593P89	10K	1/4W	Rd
R517,518	06S44594P08	56K	1/4W	Rd
R519,520	06S44593P77	3.3K	1/4W	Rd
R521	06S44593P57	470	1/4W	Rd
R523,524	06S44594P24	270K	1/4W	Rd
R525,526	06S44594P02	33K	1/4W	Rd
R527,528	06S44593P47	180	1/4W	Rd
R529,530	06S44594P20	180K	1/4W	Rd
R531,532	06S44593P81	4.7K	1/4W	Rd
R533,534	06S44593P17	10	1/4W	Rd
R551	06S44593P63	820	1/4W	Rd
R553	06S44593P77	3.3K	1/4W	Rd
R555	06S44593P83	5.6K	1/4W	Rd
R556,557	06S44593P97	22K	1/4W	Rd
R558,559	06S44593P33	47	1/4W	Rd
R560	06S44593P01	2.2	1/4W	Rd
R561	06S44593P61	680	1/4W	Rd
R601	06S44593P77	3.3K	1/4W	Rd
R651	06S44593P97	22K	1/4W	Rd
R653	06S44593P97	22K	1/4W	Rd
R654	06S44593P97	22K	1/4W	Rd
	06S44594P06	47K	1/4W	Rd
				(EK. UP)
R655,656	06S44593P89	10K	1/4W	Rd
R657,658	06S44593P97	22K	1/4W	Rd
R659,660	06S44593P89	10K	1/4W	Rd
R661	06S44593P95	18K	1/4W	Rd(SK)
R662	06S44593P89	10K	1/4W	Rd
R663,664	06S44593P97	22K	1/4W	Rd
R665,666	06S44593P89	10K	1/4W	Rd
R667	06S44593P89	10K	1/4W	Rd
R668	06S44593P93	15K	1/4W	Rd
R669,670	06S44593P89	10K	1/4W	Rd
R671	06S44593P81	4.7K	1/4W	Rd
R672,673	06S44593P97	22K	1/4W	Rd
R674,675	06S44593P89	10K	1/4W	Rd
R680	06S41801P44	10K	1/4W	Rd
R3001,3002	06S44594P24	270K	1/4W	Rd
R3003,3004	06S44594P06	47K	1/4W	Rd
R3005,3006	06S44593P74	2.4K	1/4W	Rd
R3007,3008	06S44593P71	1.8K	1/4W	Rd
R3013,3014	06S44594P02	33K	1/4W	Rd
R3015,3016	06S44593P89	10K	1/4W	Rd

Symbol No.	Stock No.	Description		
R3017,3018	06S44593P83	5.6K	1/4W	Rd
R3021,3022	06S44593P87	8.2K	1/4W	Rd
R3023,3024	06S44593P93	15K	1/4W	Rd
R3025,3026	06S44593P82	5.1K	1/4W	Rd
R3027,3028	06S44593P87	8.2K	1/4W	Rd
R3029,3030	06S44593P77	3.3K	1/4W	Rd
R3031,3032	06S44593P82	5.1K	1/4W	Rd
R3033,3034	06S44593P65	1K	1/4W	Rd
R3035,3036	06S44593P47	180	1/4W	Rd
R3037,3038	06S44594P06	47K	1/4W	Rd
R3039,3040	06S44594P12	82K	1/4W	Rd
R3041,3042	06S44593P84	6.2K	1/4W	Rd
R3043,3044	06S44593P84	6.2K	1/4W	Rd
R3045,3046	06S44593P87	8.2K	1/4W	Rd
R3047,3048	06S44594P12	82K	1/4W	Rd
R3049,3050	06S44593P50	240	1/4W	Rd
R3051,3052	06S44593P81	4.7K	1/4W	Rd
R3053,3054	06S44594P38	1M	1/4W	Rd
R3055,3056	06S44594P08	56K	1/4W	Rd
R3057,3058	06S44593P49	220	1/4W	Rd
R3059,3060	06S44593P89	10K	1/4W	Rd
R3061,3062	06S44594P10	68K	1/4W	Rd
R3063,3064	06S44593P82	5.1K	1/4W	Rd
R3067,3068	06S44593P41	100	1/4W	Rd
R3069,3070	06S44593P41	100	1/4W	Rd
R3101	06S44593P65	1K	1/4W	Rd
R3102	06S44593P83	5.6K	1/4W	Rd
R3103	06S44593P81	4.7K	1/4W	Rd
R3106	06S44593P57	470	1/4W	Rd
R3511,3512	06S44593P89	10K	1/4W	Rd
R3513,3514	06S44594P02	33K	1/4W	Rd
R3515,3516	06S44593P89	10K	1/4W	Rd
R3517,3518	06S44594P08	56K	1/4W	Rd
R3521,3522	06S44593P87	8.2K	1/4W	Rd
R3523,3524	06S44593P93	15K	1/4W	Rd
R3525,3526	06S44593P82	5.1K	1/4W	Rd
R3527,3528	06S44593P87	8.2K	1/4W	Rd
R3529,3530	06S44593P77	3.3K	1/4W	Rd
R3531,3532	06S44593P82	5.1K	1/4W	Rd
R3533,3534	06S44593P65	1K	1/4W	Rd
R3535,3536	06S44593P47	180	1/4W	Rd
R3537,3538	06S44594P06	47K	1/4W	Rd
R3539,3540	06S44594P12	82K	1/4W	Rd
R3541,3542	06S44593P84	6.2K	1/4W	Rd
R3543,3544	06S44593P84	6.2K	1/4W	Rd
R3545,3546	06S44593P87	8.2K	1/4W	Rd
R3547,3548	06S44594P12	82K	1/4W	Rd
R3549,3550	06S44593P50	240	1/4W	Rd
R3551,3552	06S44593P81	4.7K	1/4W	Rd
R3553,3554	06S44594P38	1M	1/4W	Rd
R3555,3556	06S44594P08	56K	1/4W	Rd
R3557,3558	06S44593P49	220	1/4W	Rd
R3559,3560	06S44593P89	10K	1/4W	Rd(SK)
R3561,3562	06S44594P10	68K	1/4W	Rd
R3567,3568	06S44593P41	100	1/4W	Rd
R3661,3662	06S44593P81	4.7K	1/4W	Rd
R3663,3664	06S44593P41	100	1/4W	Rd

HD PHONO PARTS LIST

Symbol No.	Stock No.	Description
(Jack, Mic)		
	09T55174F12	Jack, Mic (Metal-6.5

Out Put VR PCB Parts List

Symbol No.	Stock No.	Description
(Variable Resistor)		
	18T47459F01	5KAx2

Rotary SW PCB Parts List

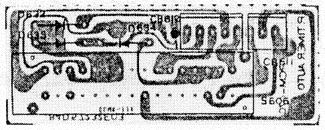
Symbol No.	Stock No.	Description
(Switch)		
	40T57206F01	Rotary SRZ-S

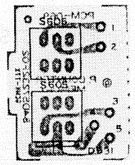
Memory & Reset PCB Parts List

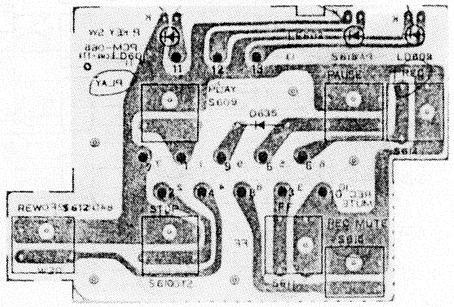
Symbol No.	Stock No.	Description
(Switch)		
	40T57207F01	Push SPH12-A
	40T57208F01	Push SPH12-A

Key Board PCB Parts List

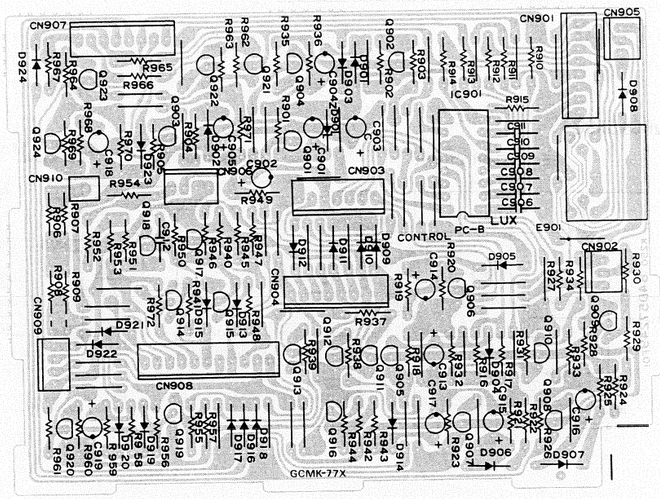
Symbol No.	Stock No.	Description
(Switch)		
S609-S615	40T44505F01	SW, KHG
(LED)		
LD601,602	48T52238F01	BG552K (Green)
LD603	48T52238F02	PR5552K (Red)







Control PCB

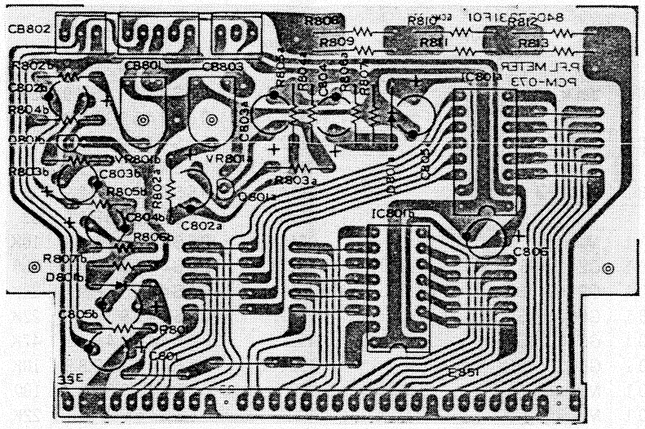


Control PCB Parts List

Symbol No.	Stock No.	Description		
(Jack)				
E901	09T50261F02	Jack, Cont		
(IC)				
IC901	51S47110F01	BA843		
(Diode, Zener)				
ZD901	48T52739F39	HZ6B-3		
(Diode)				
D901-907	48T51582F01	MA-150		
D908	48T51582F01	GE OA95		
D909	48T51586F01	GP10D (SI)		
D910	48T51586F01	GP10D (SI)		
D911	48T51586F01	GP10D (SI)		
D912	48T51586F01	GP10D (SI)		
D913-924	48T51582F01	MA-150		
D931	48T51582F01	MA-150		
D932	48T51582F01	MA-150		
D933	48T51582F01	MA-150		
D934	48T51582F01	MA-150		
D935	48T51582F01	MA-150		
D936	48T51582F01	MA-150		
(Transistor)				
Q901	48T47144F03	2SD400-F		
Q902-903	48S43525F05	2SC1815-Y, GR		
Q904	48T40081T03	2SA733 (P)		
Q905-910	48S43525F05	2SC1815-Y, GR		
Q911	48T47144F03	2SD400-F		
Q912	48T47144F03	2SD400-F		
Q913	48T47144F03	2SD400-F		
Q914	48T40081T03	2SA733 (P)		
Q915	48S43525F05	2SC1815-Y, GR		
Q916	48S43525F05	2SC1815-Y, GR		
Q917	48T40081T03	2SA733 (P)		
Q918-924	48S43525F05	2SC1815-Y, GR		
(Capacitor)				
C901	23S40657F10	10uF	16V	E1
C902	23S40657F17	10uF	25V	E1
C903	23S40657F10	10uF	16V	E1
C904	23S40657F11	22uF	16V	E1
C905	23S40657F07	47uF	10V	E1
C906-911	08S44505P61	10000pF		Ce
C912	08S44505P37	100pF		Ce
C913	23S40657F07	47uF	10V	E1
C914	23S40657F10	10uF	16V	E1
C915	23S40657F07	47uF	10V	E1
C916	23S40657F05	22uF	10V	E1
C917	23S40657F29	2.2uF	50V	E1
C918	23S40657F28	1uF	50V	E1
C919	23S40657F16	4.7uF	25V	E1
(Resistor)				
R901	06S44593P57	470	1/4W	Rd
R902	06S44594P06	47K	1/4W	Rd
R903	06S44594P06	47K	1/4W	Rd
R904	06S44594P11	75K	1/4W	Rd
R905	06S44594P10	68K	1/4W	Rd
R906	06S44593P51	270	1/4W	Rd
R907	06S44593P51	270	1/4W	Rd
R908	06S44593P50	240	1/4W	Rd

Symbol No.	Stock No.	Description		
R909	06S44593P50	240	1/4W	Rd
R910	06S44593P29	33	1/4W	Rd
R911	06S44593P29	33	1/4W	Rd
R912	06S44593P29	33	1/4W	Rd
R913	06S44593P29	33	1/4W	Rd
R914	06S44593P29	33	1/4W	Rd
R915	06S44593P29	33	1/4W	Rd
R916	06S44593P89	10K	1/4W	Rd
R917	06S44593P41	100	1/4W	Rd
R918	06S44593P97	22K	1/4W	Rd
R919	06S44593P97	22K	1/4W	Rd
R920	06S44594P06	47K	1/4W	Rd
R921	06S44593P89	10K	1/4W	Rd
R922	06S44593P41	100	1/4W	Rd
R923	06S44593P97	22K	1/4W	Rd
R924	06S44593P89	10K	1/4W	Rd
R925	06S44593P41	100	1/4W	Rd
R926	06S44593P97	22K	1/4W	Rd
R927	06S44593P89	10K	1/4W	Rd
R928	06S44594P14	100K	1/4W	Rd
R929	06S44593P97	22K	1/4W	Rd
R930	06S44593P41	100	1/4W	Rd
R931	06S44593P89	10K	1/4W	Rd
R932	06S44594P14	100K	1/4W	Rd
R933	06S44593P97	22K	1/4W	Rd
R934	06S44593P39	82	1/4W	Rd
R935	06S44593P89	10K	1/4W	Rd
R936	06S44594P14	100K	1/4W	Rd
R937	06S44593P73	2.2K	1/4W	Rd
R938	06S44593P73	2.2K	1/4W	Rd
R939	06S44593P73	2.2K	1/4W	Rd
R940	06S44594P14	100K	1/4W	Rd
R941	06S44593P89	10K	1/4W	Rd
R942	06S44593P89	10K	1/4W	Rd
R943	06S44593P97	22K	1/4W	Rd
R944	06S44594P14	100K	1/4W	Rd
R945	06S44594P14	100K	1/4W	Rd
R946	06S44593P89	10K	1/4W	Rd
R947	06S44594P07	51K	1/4W	Rd
R948	06S44593P89	10K	1/4W	Rd
R949	06S44594P07	51K	1/4W	Rd
R950	06S44593P89	10K	1/4W	Rd
R951	06S44593P89	10K	1/4W	Rd
R952	06S44594P06	47K	1/4W	Rd
R953	06S44593P85	6.8K	1/4W	Rd
R954	06S44593P69	1.5K	1/4W	Rd
R955	06S44593P89	10K	1/4W	Rd
R956	06S44593P97	22K	1/4W	Rd
R957	06S44593P89	10K	1/4W	Rd
R958	06S44593P97	22K	1/4W	Rd
R959	06S44593P41	100	1/4W	Rd
R960	06S44594P14	100K	1/4W	Rd
R961-969	06S44593P89	10K	1/4W	Rd
R970	06S44593P97	22K	1/4W	Rd
R971	06S44593P59	560	1/4W	Rd
R972	06S44594P07	51K	1/4W	Rd

FL Meter PCB



FL Meter PCB Parts List

Symbol No.	Stock No.	Description
(FL Meter)		
E851	65T52950F01	FIP 12DW7YS
(Variable Resistor)		
VR801a, b	18T52946F17	47K
(IC)		
IC801a, b	51T42626F01	HA12019
(Transistor)		
Q801a, b	48S43525F05	2SC1815Y, GR
(Diode)		
D801a, b	48T43982F01	OA95 Ge
(Capacitor)		
C801	23S40657F21	100uF 25V E1
C802a, b	23S40657F10	10uF 16V E1
C803a, b	23S40657F17	10uF 25V E1
C804a, b	23S40657F17	10uF 25V E1
C805a, b	23T42478F21	0.33uF 50V LN E1

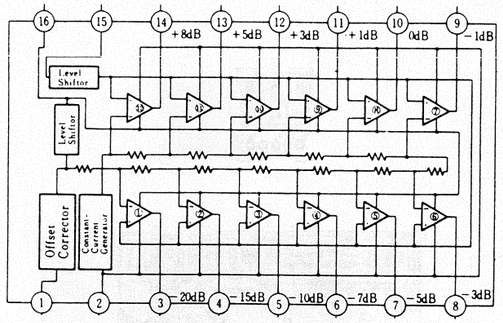
Symbol No.	Stock No.	Description
C806	23S40657F21	100uF 25V E1
(Resistor)		
R801	06S44593P41	100 1/4W Rd
R802a, b	06S44593P89	10K 1/4W Rd
R803a, b	06S44594P29	430K 1/4W Rd
R804a, b	06S44593P71	1.8K 1/4W Rd
R805a, b	06S44594P18	150K 1/4W Rd
R806a, b	06S44594P50	3.3M 1/4W Rd
R807a, b	06S44593P85	6.8K 1/4W Rd
R808	06S44593P43	120 1/4W Rd
R809	06S44593P43	120 1/4W Rd
R810	06S44593P43	120 1/4W Rd
R811	06S44593P43	120 1/4W Rd
R812	06S44593P43	120 1/4W Rd
R813	06S44593P43	120 1/4W Rd

Destinations Parts List

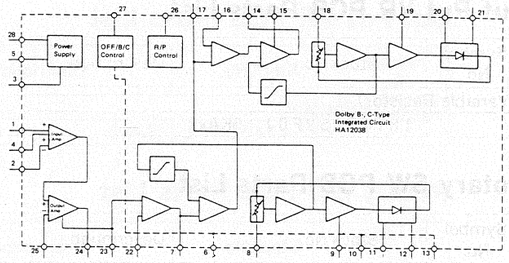
Symbol No.	Description	SK (220V) Europe	EK (220V) Europe	UP (120V) Canada
55	Trans, Power	25T47457F01	25T57592F01	25T50265F02
24	SW, Power	40T45561F01	40T45561F01	40T47454F01
62	AC, Cord	28T43812P02	28T50179F03	28T40916U01
61	Stopper, Cord	43B41625J02	43B41625J02	43B41625J01
67	Bkt, Trans	07B45445F01	07B45445F01	07B45445F02
73	SW, Selector	Non Use	40T40705T04	Non Use
F101-103	Holder, Fuse	09T45548F01	Non Use	Non Use
F101-103	Fuse	65T42077U16	Non Use	Non Use

IC Handling Guide

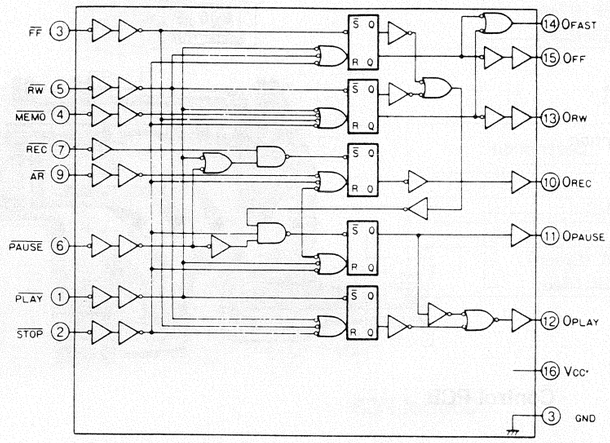
HA12019. (IC801a, b Stock No. 51T42626F01)
Fluorescent Tube Driver for Bar Graph Display

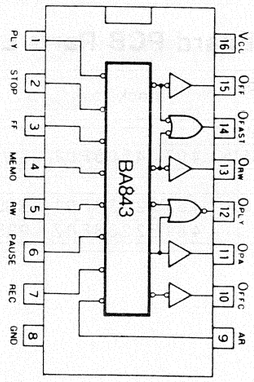


HA12038. (IC301, 302 Stock No. 51T52160F01)
Dolby-Band-C Type Noise Reduction System



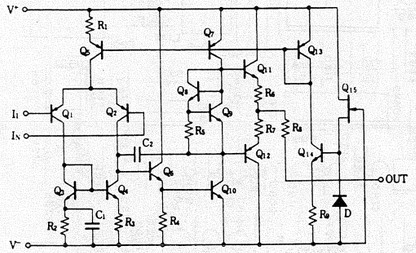
BA843 (IC601 Stock No. 51S47110F01)
Key Control



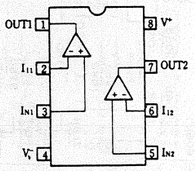


μPC4558C

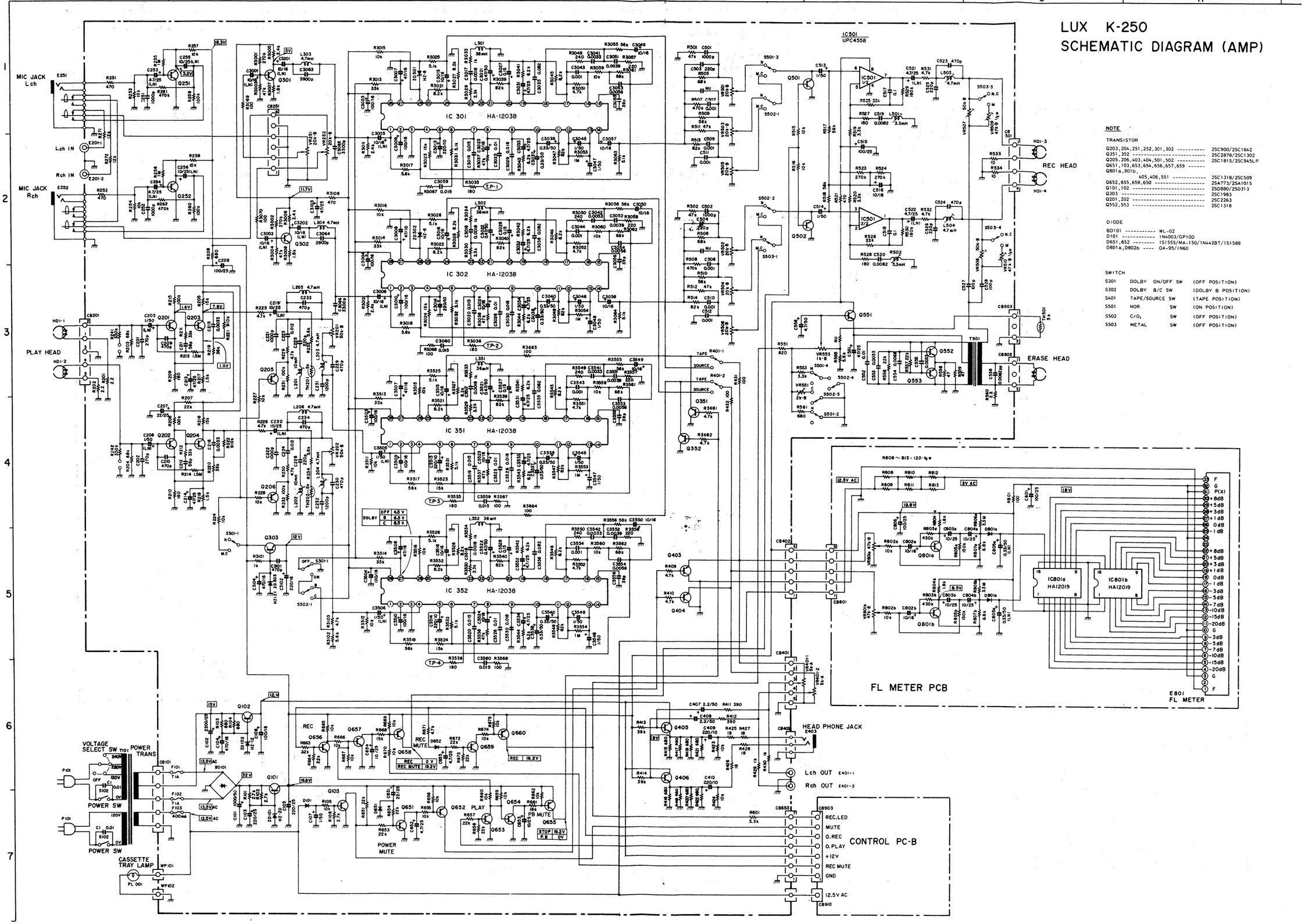
Equivalent Circuit



Connection Diagram (Top View)

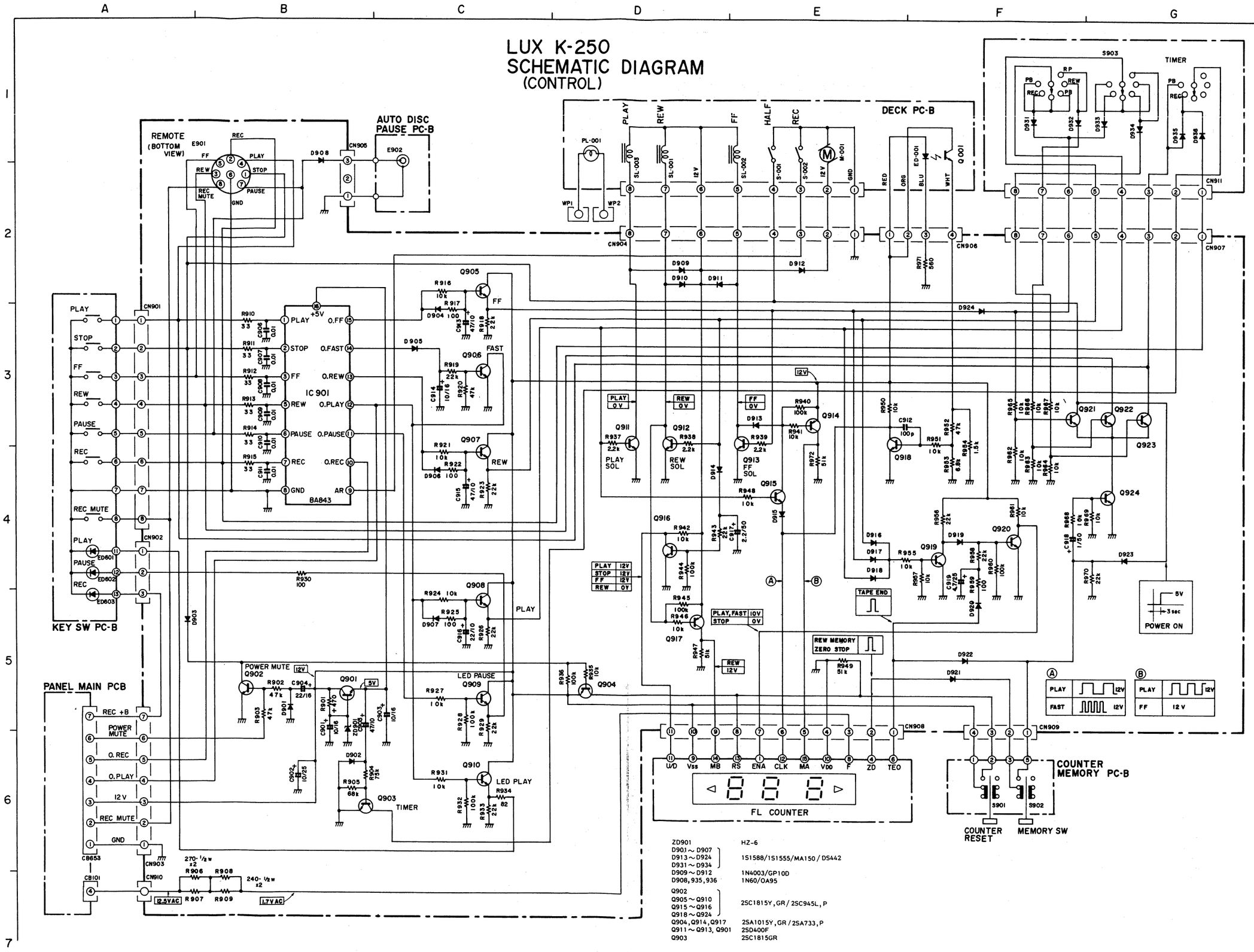


Schematic Diagram(A)



Schematic Diagram(B)

LUX K-250
SCHEMATIC DIAGRAM
(CONTROL)



ZD901	HZ-6
D901 ~ D907 D913 ~ D924 D931 ~ D934	1S1588/1S1555/MA150/DS442
D909 ~ D912	1N4003/GP10D
D908, 935, 936	1N60/OA95
Q902 Q905 ~ Q910 Q915 ~ Q916 Q918 ~ Q924	2SC1815Y, GR/2SC945L, P
Q904, Q914, Q917	2SA1015Y, GR/2SA733, P
Q911 ~ Q913, Q901	2SD400F
Q903	2SC1815GR

Specifications

Heads :		
Record head	Sendust	
Playback head	Hexalam	
Erase head	Double gap Ferrite	
Wow & Flutter :	no more than 0.04% (W.R.M.S)	
Signal-to-Noise Ratio :	Metal-Tape :	Better than 59dB without NR
		Better than 67dB with Dolby-B-NR on
		Better than 73dB with Dolby-C-NR on
	CrO2-Tape :	Better than 59dB without NR
		Better than 67dB with Bolby-B-NR on
		Better than 73dB with Dolby-C-NR on
	NOr.-Tape :	Better than 57dB without NR
		Better than 65dB with Dolby-B-NR on
		Better than 72dB Dolby-C-NR on
Freqeuncy Response :	20Hz--20,000Hz (Metal Tape)	
	(20Hz--18,000Hz±3dB)	
	20Hz--18,000Hz (CrO2 Tape)	
	(20Hz--17,000Hz±3dB)	
	20Hz--17,000Hz (Nor. Tape)	
	(20Hz--16,000Hz±3dB)	
The 3rd Harmonic Distortion :	no more than 0.6% (Normal tape, 1kHz, 0dB)	
Input Sensitivity :	line in: 80mV	
	microphone: 300uV	
Output Level :	line out: 500mV	
	headphone: 1mW (8 ohms load)	
Power Consumption :	26W	
Dimenstions :	453 (W) x 275 (D) x 110 (H) mm	
	(17.8" x 10.8" x 4.3")	
Weight :	Net : 5.7kgs (1bs.)	
	Gross : 6.5kgs (1bs.)	

Specifications and appearance design subject to change without notice.

* NOISE REDUCTION CIRCUIT MADE UNDER LICENCE FROM DOLBY LABORATORIES. THE WORD "DOLBY" AND THE DOUBLE-D SYMBOL ARE THE TRADE MARKS OF DOLBY LABORATORIES.

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